

IN THE CLAIMS:

Please amend the claims as indicated below.

1. (Previously Presented) A method for distributing a clock signal generated by a
5 clock generator to a plurality of nodes on an integrated circuit, said method comprising the steps
of:

estimating a clock delay for each of said nodes, wherein said clock delay includes
clock generator output delays and resistive-capacitive delays; and

adjusting said clock signal for each node based on said estimated clock delay such
10 that said clock signal arrives at each of said nodes with an aligned phase.

2. (Original) The method of claim 1, wherein said estimating step further comprises
the step of estimating a round trip delay time for said clock signals.

3. (Original) The method of claim 2, wherein said round trip delay time is obtained
using a primary clock path and a return clock path.

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4. (Previously Presented) The method of claim 1, wherein said integrated circuit is a
system-on-chip.

5. (Previously Presented) The method of claim 1, wherein said integrated circuit is a
printed circuit board.

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6. (Currently Amended) A method for distributing a clock signal generated by a
clock generator to a plurality of nodes on an integrated circuit, said method comprising the steps
of:

providing a feedback clock path for each of said nodes, each of said feedback
25 clock paths having an associated primary clock path that distributes said clock to each node;

determining a round trip delay ~~travel~~ time of said clock signal on each of said primary clock paths and associated feedback clock path;

estimating a clock delay for each of said nodes using said round trip travel time;

and

5 adjusting said clock signal for each node based on said estimated clock delay such that said clock signal arrives at each of said nodes with an aligned phase.

7. (Previously Presented) The method of claim 6, wherein said clock delay includes a clock generator output delay and a resistive-capacitive delay.

8. (Cancelled)

10 9. (Currently Amended) The method of claim 6 ~~8~~, wherein said round trip delay time is obtained using the primary clock path and a return clock path.

10. (Previously Presented) The method of claim 6, wherein said integrated circuit is a system-on-chip.

15 11. (Previously Presented) The method of claim 6, wherein said integrated circuit is a printed circuit board.

12. (Currently Amended) A network for distributing a clock signal generated by a clock generator to a plurality of nodes on an integrated circuit, said network comprising:

20 a primary clock path that distributes said clock to each node;

a feedback clock path associated with each of said primary clock paths;

a phase comparator for determining a round trip delay ~~travel~~ time of said clock signal on each of said primary clock paths and associated feedback clock path; and

a delay driver for adjusting said clock signal for each of said nodes based on an estimated clock delay for each of said nodes based on said round trip travel time, such that said clock signal arrives at each of said nodes with an aligned phase.

13. (Previously Presented) The network of claim 12, wherein said clock delay
5 includes a clock generator output delay and a resistive-capacitive delay.

14. (Cancelled)

15. (Currently Amended) The network of claim 12 ~~14~~, wherein said round trip delay time is obtained using the primary clock path and a return clock path.

10 16. (Previously Presented) The network of claim 12, wherein said integrated circuit is a system-on-chip.

17. (Previously Presented) The network of claim 12, wherein said integrated circuit is a printed circuit board.